Gati Shakti Vishwavidyalaya

(Central University under the Ministry of Railways, Govt. of India.)

NAIR CAMPUS, LALBAUG, VADODARA, GUJARAT - 390004.

PLACEMENT BROCHURE: M.Sc.

गति शक्ति विश्वविद्यालय   GATI SHAKTI VISHWAVIDYALAYA

BE THE TRANSFORMATION....

In India's Transportation Ecosystem

Chancellor's Message

Gati Shakti Vishwavidyalaya will act as an engine of growth in the transportation and logistics by providing a highly qualified and talented workforce to usher India into a new age.

Ashwini Vaishnaw

Chancellor, Gati Shakti Vishwavidyalaya
Minister of Railways , Communications and
Electronics & Information Technology,
Govt of India

Vice Chancellor's Message

Gati Shakti Vishwavidyalaya focuses on the entire transport sector to produce a talented, well trained and focused human resource cadre for handling the complexities of the sector. This will support the ambitious growth and modernization in the field thereby supporting and enabling the PM Gati Shakti National Master Plan.

Prof. Manoj Choudhary
Vice Chancellor

Gati Shakti Vishwavidyalaya

Gati Shakti Vishwavidyalaya (GSV), a Central University and a pioneer in the domain of transportation education in India, embodies vision of the Hon'ble Prime Minister Shri Narendra Modi Ji. Created in 2022 by an Act of Parliament, GSV's inception goes back to National Rail and Transportation Institute (NRTI), which was established in 2018 as a Deemed to be University under De Novo category.

Being a University of first-of-its-kind focused on transport-related education, multidisciplinary research and training, GSV is specifically established to create a resource pool of best-in-class professionals for the entire transportation sector across technology, economics and management through a variety of programs including regular education, executive and continuing education as well as skilling. As a futuristic initiative of Government of India, GSV believes in shaping graduates and postgraduates who are uniquely qualified to pursue and excel in careers in transportation-related industries and crucially cater to the shifting needs and rising demands of the global economic order.

GSV offers multi-disciplinary programmes based on demand-driven curriculum which is woven around industry priorities in order to meet the industry needs of the transportation sector.

In tune with the globally acclaimed best practices, GSV follows a highly experiential and unique inter-disciplinary pedagogical approach that incorporates the latest technologies such as live classrooms, online programmes and sessions engaged by high quality faculty with global exposure. Students of GSV are uniquely qualified to pursue and excel in careers to match the contemporary demands of the globalized economy.

GSV Campus

GSV is, currently, located inside the National Academy of Indian Railways' campus in Vadodara, Gujarat. The 55 Acres campus is a wooden sanctuary enlivened by the calls of peacocks and migratory birds. The campus also houses the Pratap Vilas Palace, a historical monument. The Palace, designed by C.F. Stevens in renaissance style, was built in year 1914.

The campus life, in the luxurious sylvan surroundings, promises students the best possible ambience for intellectual and academic pursuits. The campus is equipped with the modern facilities viz. state of the art air-conditioned classrooms, hostel accommodation, Wi-Fi etc.

Academic Programmes

The University, currently, offers the following academic programmes focused on transportation and logistics:

- ➤ B.Tech (Rail Infrastructure Engineering)

- ➤ B.Tech (Rail Systems & Communication Engineering)

- ➤ B.Tech (Mechanical & Rail Engineering)

- ➤ BBA (Transportation Management)

- ➤ B.Sc. (Transportation Technology)

- ➤ MBA (Logistics & Supply Chain Management)

- ➤ MBA (Transport Economics & Management)

- ➤ M.Sc. (Transport Information Systems & Analytics)

- ➤ M.Sc. (Railways Systems Engineering & Integration) - a dual degree program with University of Birmingham, UK

GSV Faculty

Dr. C.P. Nanda,
Professor,
Ph.D- JNU

Dr. Edwin Raj,
Professor,
Ph.D- IIT Roorkee

Dr. Hari K Gaddam,
Assistant Professor
Ph.D, IIT Delhi

Dr. Sunil Kumar Sharma,
Assistant Professor
Ph.D, IIT Roorkee

Dr. Pradeep,
Assistant Professor
Ph.D, IIT Hyderabad

Dr. Pradeep K Saroj,
Assisant Professor
Ph. D, IIT Dhanbad

Dr. Jitesh Thakkar,
Professor,
Ph.D- IIT Delhi

Dr. Venkat Chintala,
Associate Professor
Ph.D, IIT Delhi

Dr. Abhilasha Saksena,
Assistant Professor
Ph.D, Tohoku University, Japan

Dr. Ram Krishna Upadhyay,
Assistant Professor
Ph.D, IIT Dhanbad

Dr. Jyoti Sharma,
Assistant Professor
Ph.D, University of Delhi

Dr. Navneet Sharma,
Assistant Professor
Ph. D, IIT Indore

Prominent Visiting Faculty

Dr. G. Raghuram
Ex-Director, IIM Bangalore
B.Tech., IIT Madras; PGDM, IIM
Ahmedabad;

Mr. Saurabh Mittal
B.Tech., IIT Delhi; MBA, Oxford Uni.;
Member, Governing Board, IIT Mandi

Dr. Kamal Kishore Sharma
Professor, IIM Kozhikode
Ex Vice Chancellor (A), Ansal University
Fellow, IIM

Mr. Apoorv Bamba
Co-Founder & CEO,
Ingenious Faces

Dr. Vijaya Sunder
Assistant Professor, ISB Hyderabad
PhD, IIT Madras

Dr. Usha Mohan
Professor, IIT Madras
PhD, Indian Statistical Institute

Dr. Hasmukh Gajjar
Associate Professor, IIM Indore
PhD, IIT Bombay

Dr. O.P. Agarwal
CEO, World Resources Institute
Masters in Transportation, MIT, USA; PhD
Transport Economics, IIT Delhi

Dr. Sandhya Shekhar
PGDM, IIM Bangalore; PhD, IIT Madras;
Former CEO, IIT Madras Research Park

Dr. Narayan Rangaraj
B.Tech., IIT Bombay, PhD, The Johns
Hopkins Univ.; Professor, IIT Bombay

Dr. Rekha Jain
Ex-Professor, IIM Ahmedabad
PhD, IIT

Dr. L.S. Ganesh
Professor, IIT Madras
PhD , IIT

Dr. Gopal R. Patil
Professor, IIT Bombay
PhD, Rensselaer Polytech. Institute, NY;

Dr. Ankur Kulshrestha
Adjunct Professor, BIMTECH
CFA, CA; Doctoral Fellow, IIM

International Collaboration

GSV has forged academic partnerships with top-ranked global universities offering opportunities for student and faculty exchange, joint research and learning,
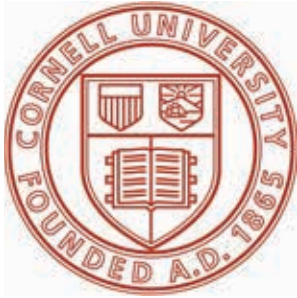
Cornell University, USA

Japan Transport and Tourism Research Institute, Japan

Russian University of Transport, Moscow, Russia

University of California, Berkeley USA

St. Petersburg state transport university, Russia

University of Birmingham, UK

M.Sc.(Transport Information System & Analytics)

The programme builds foundation in theories, methods, and tools for advanced knowledge of information systems, data science, and analytics in the context of transportation. Specialized courses are offered in the areas of data models & decisions, information policy, big data and network theory to develop an interdisciplinary perspective.

Academic Curriculum

- Modelling through spreadsheets & R programming
- Basics of Accounting & Finance
- Critical Thinking & Writing - I
- Research methodology
- Dynamics of the Transport ecosystem
- Transport and Supply chain ecosystem
- Position paper - I

- Operation research models in Transportation
- Critical Thinking and Writing - II
- Regional and Rural Planning models
- Transportation Finance and Economics
- Environmental Impacts of Transportation systems
- Position paper - II

- Urban Planning models
- Introduction to Systems Engineering
- Law, Technology and Public policy
- Big Data models in Transportation Systems
- Critical Thinking & Writing - III
- Position paper - III

- Railway Terminology
- High speed rolling stocks
- Programming using Python and Matlab
- Advance Intelligent Transport Systems
- Mathematics for multi-model transportation
- Electives
- Dissertation Phase I
- Dissertation Phase II

Electives

- Warehouse design and management
- Transportation Systems safety & reliability
- Technology in Transportation Systems
- Analytical tools for Data structures and Visualization
- Internet of Things
- Database management system
- Multi model urban transportation systems

M.Sc.(Railway Systems Engineering & Integration)
(A dual degree program with University of Birmingham, UK)

The program aims at providing a strong foundation in theories, methods, and tools needed to develop railway engineering knowledge, systems integration skills and understanding of the complex interactions between subsystems.

Academic curriculam

- Modelling through spreadsheets & R programming
- Basics of Accounting & Finance
- Critical Thinking & Writing - I
- Research methodology
- Dynamics of the Transport ecosystem
- Transport and Supply chain ecosystem
- Position paper - I

- Operation research models in Transportation
- Critical Thinking and Writing - II
- Regional and Rural Planning models
- Transportation Finance and Economics
- Environmental Impacts of Transportation systems
- Position paper - II

- Urban Planning models
- Introduction to Systems Engineering
- Law, Technology and Public policy
- Big Data models in Transportation Systems
- Critical Thinking & Writing - III
- Position paper - III

@UoB, UK

- Introduction to Railway engineering
- Railway operations, management and planning
- Infrastructure and rolling stock systems
- Railway control and digital systems

- Systems engineering and ergonomics
- Electrification and traction systems
- Business and people management

- Dissertation

M.Sc. (Transport Information System & Analytics)

Adharsh Gupta, Graduation - B.Tech (Electrical)

He is a results-oriented individual who is confident in his ability to produce, and his areas of interest include electric traction, urban mobility, and ML algorithms in autonomous vehicles. He completed his internship at RDSO, where he worked on a project titled "Reliability Study of Insulators Used in Indian Railway Traction System," which required him to perform fault analysis on various Insulators.

Akshay Krishnan E R, Graduation -B.Sc (Maths)

A highly ambitious, result oriented and a natural leader who has constantly proved his leadership quality. He has a strong background in mathematics, along with sharp critical and analytical skills. Being a project research intern at Vandhana International Private Limited, he prominently handled and improved the organisation's data management portal as well as their training portal, along with conducting research on the topic of rail grinding. His experience and skills sets make him an ideal candidate for a challenging and enriching professional environment.

Ankit Singh Pratap, Graduation - B.Tech (Mechanical)

Ankit is a determined and keen learner who is dedicated to making operations efficient and smooth with his analytical skills. During his internship at RITES, he worked on a live project called "Transport Logistics Infrastructure of Odisha," where he examined line capacity and traffic-heavy routes of railway divisions. He is adept at maintaining compliance and leading teams with his 4.5 years of professional experience in healthcare management and entrepreneurship.

Bhumika Singh, Graduation -B.E (ECE)

Bhumika Singh is a highly enthusiastic individual who loves to work in a team, is open to exploring new avenues of learning, is creative, and has a problem-solving approach. She has begun her corporate journey at Infosys Ltd. after graduating as an engineer in electronics and communication. She completed her summer internship at RailTel in Kolkata during her post-graduate studies. She is highly organised and optimistic.

Bhithika Mohanty, Graduation -B.Tech (CSE)

An ambitious, determined, and goal-oriented individual who is keen on staying persistent for the targeted results. Coming from a computer science background, the thought process naturally sticks to the logical side of problem-solving and understanding. Being a prolific thinker, the individual has a predilection towards innovation. With her independent but adaptable and flexible frame of mind, she loves to work as a team.

Pritis Kumar Das, Graduation -B.Sc (Chem)

Aspiring logistics professional with a strong interest in supply chain management and a desire to make a positive impact in the industry. He is eager to apply his knowledge and skills to real-world challenges. He is a quick learner and has a strong work ethic, with experience in project management at RITES Ltd. He is confident in his ability to communicate effectively, work well in a team, and find creative solutions to complex problems. He is excited to start his career in the logistics industry and looks forward to opportunities to grow and develop his skills.

Raj Shri, Graduation -B.Tech (ECE)

A diligent and result-oriented analyst with real-time experience in quantitative analysis related to feasibility in assimilation of large data sets and qualitative analysis through gap assessment w.r.t. government policy by interning at RITES and CRIS. Have expertise in signalling and telecommunications, as well as a published research paper in Springer. An enthusiastic and functional team player with an interest in reading newspapers.

Saharanshu Pal, Graduation -B.Sc (Statistics)

Sahasranshu is a dedicated and hardworking individual with a profound interest in learning new skills and exploring new domains. Being a graduate in statistics, he has the theoretical knowledge of its applications in data analytics, and he is also learning software like Python, MS-Excel, R, and MATLAB. He gained very effective work experience through his summer internship at RailTel by learning about OFCs, networking, and making interactive dashboards.

Itikrishna Subhadarshinee, Graduation -B.Sc (Chem.)

A recently graduated professional who is eager to accept the challenging post in order to further her career. Proactive, creative, and dedicated individual with a good understanding of Microsoft Office features. During her internship at RailTel Corp. of India, she learned about the various technologies utilised in optical fibre communication and the analysis of HR data with the help of a dashboard using MS Excel.

Kumar Akash, Graduation -B.Tech (Mechanical)

He is a rationally sound person who is pursuing an MSc in Transport Information Systems and Analytics. He carries an innovative mindset supported by a reasoning based approach with an orientation towards rolling stock, propulsion, and power, as well as abilities in data interpretation, visualization, and analytics. deeply invested in sustainability in the transportation sector with solar technology and a green hydrogen ecosystem. Economics and the possibilities of emerging technologies and policies count as his prime area of interest.

Mrinalini Kumawat, Graduation -BE (ECE)

Mrinalini is a keen learner and is interested in learning skills related to data analytics, which motivated her to improve her analytical skills. During her summer internship at Ernst & Young, she collaborated with the team on a project for the Ministry of Commerce called Logistics Planning and Performance Monitoring Tool. The main tasks were based on analysing the datasets available and understanding the logistics requirements and responses using the tools available. Some data from the E-Way Bill and similar datasets related to transport were also managed as per the team tasks.

Praveen Nath, Graduation - BE (Automobile)

He is a calm and dedicated person. And he is diligent and loyal to any kind of working organization. Then always follow standards and regulations in any kind of process, especially safety norms. and has three years of work experience in production, production planning, quality assurance, and control departments in the automobile sector. Currently enrolled in a postgraduate transportation program, he seeks to contribute to the transportation sector in an efficient and sustainable manner.

Chandransh Tiwari, Graduation -BBA (Marketing)

He is highly professional in his work and open to learning and exploring. He is a BBA (Management Graduate) with good control over his negotiation skills, work in collaboration, and ethical skills, which helped him to work in different leading positions. He is currently pursuing Transportation Information and System Analytics, which has given him great exposure to work with data and gain analytical skills in management.

Shivon Kozhiparambil Shajeev, Graduation-B.Tech (Mechanical)

He joined GSV after gaining a considerable amount of job experience to pursue a career in transportation. He is punctual and shows considerable discipline when it comes to responsibilities regarding academic mattersis punctual and shows considerable discipline when it comes to responsibilities regarding academic matters. During his internship at RITES Ahmedabad, he gained extensive knowledge of consulting work and was able to demonstrate his skillset.

Srivan S, Graduation -BE (Mechanical)

An ardent learner who is eager to learn new things and a general thinker who can comprehend things quickly, is a strong team player, and can converse in three languages. During his internship at CONCOR India Ltd., he demonstrated his knowledge and problem-solving abilities by making proposals to increase container operations' efficiency. He enjoys exploring nature and is a monochromartist.

M.Sc.(Railway System Engineering & Integration)

Vishal K R, Graduation -B.Sc (Comp. Sci)

A very energetic person who has a positive attitude in life. He successfully completed his first year with good grades. He also adapts well to people and situations. His internship was at AAI Varanasi, where he expanded his knowledge of terminal operations, data analysis, and the inland baggage handling system.

Akash N Hebbi, Graduation -B.E (Civil)

He began his professional career with TATA Consulting Engineers (TCE). During which he faced various challenges which have assisted him to work under stress and explore the corporate world. In addition to his two years of professional experience, he has published a research paper in the International Journal of Scientific Research in Civil Engineering and completed summer internships at the Bangalore Metro Rail Corporation Ltd. (BMRCL) and Svamitva Emerald Square.

Dhruv Dutt Tiwari, Graduation -BE (Automobile)

As an automobile engineer, he underwent two internships, which helped him implement his theoretical knowledge along with experiencing an intensive working environment. He's also an individual who is highly motivated and enthusiastic about improving my craft and working in and contributing to the field.

Prabuddha Barange, Graduation -B.Tech (Mechanical)

Prabuddha Barange is a transport enthusiast. I am passionate about gaining knowledge in the railroad industry and other transport sectors. He loves to work in diverse and challenging conditions, which gives scope for improvement. He has always been disciplined towards his work and duties.
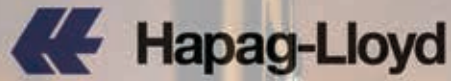
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